



## California Vandenberg AFB

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### ***Facility and Location***

Vandenberg Air Force Base (VAFB) is headquarters for the 30th Space Wing (SW). The 30th SW manages DoD space and missile testing and is responsible for all DoD space and missile launch activities on the West Coast. All U.S. satellites destined for near polar orbit are launched from VAFB. VAFB places satellites into polar orbit from the West Coast using expendable solid rocket boosters including: Delta II, Pegasus, Taurus, Minotaur, and Titan IV. The 30th SW is in a state of transition as it moves to the evolved expendable launch vehicles Atlas V and Delta IV. Personnel from 30th SW also support the service's Minuteman III and Peacekeeper intercontinental ballistic missile force development evaluation programs. Future activities include operational missiles to provide missile defense for the western U.S. The 30th SW is also home to the Western Launch and Test Range. Other major units at VAFB include the 14th Air Force, 576th Flight Test Squadron, and 381st Training Group.

### ***Media Sampled and Findings***

**Drinking Water** — In 2007, four of ten samples detected perchlorate from 0.03 to 0.06 ppb. Prior to 2007, three of three samples detected perchlorate from 0.01 to 0.05 ppb.

**Groundwater** — In 2010, 16 of 16 samples detected perchlorate from 8.15 to 189 ppb. In 2009, 14 of 14 samples detected perchlorate from 8.47 to 218 ppb. In 2008, 13 of 13 samples detected perchlorate from 26 to 263 ppb. In 2007, 12 of 12 samples detected perchlorate from 26.6 to 337 ppb. Prior to 2007, 51 of 128 samples taken from 67 sites detected perchlorate with a high of 330 ppb.

**Soil** — Prior to 2007, one sample detected perchlorate at 517 ppb.

**Surface Water** — In 2009, one sample detected perchlorate at 32 ppb. In 2008, two of two samples detected perchlorate at 53 and 65 ppb.

**Domestic Wastewater** — Prior to 2007, perchlorate was detected in domestic wastewater at less than 6 ppb.

**Wastewater** — Prior to 2007, 14 of 18 samples detected perchlorate with a high of 229 ppb.

### ***Appropriate Actions***

Some sites were found to have perchlorate concentrations in groundwater, surface water, and waste water above the EPA and DoD Preliminary Remediation Goal (PRG) of 15 ppb. Drinking water samples were not found above the California Maximum Contaminant Level of 6 ppb and soil samples were below the EPA region IX soil screening levels of 55,000 ppb residential and 720,000 ppb.

An initial investigation was conducted to determine the source, occurrence, presence, and magnitude of perchlorate at VAFB as well as a detailed evaluation of perchlorate regulation and its implication regarding VAFB water resources programs and permits. The investigations results found no further drinking water sampling and analysis is required.



At Site 8 Cluster Space Launch Complex 4/East and West, ten wells are above the 15 ppb PRG. The Air Force is continuing the full in situ bio-augmentation (ISB) treatability work in the Site 8 and Site 9 areas. This treatment continues to be an effective part of a performance based contract. The Air Force believes it will be able to meet the Remedy In Place goal of 2012 for this project.